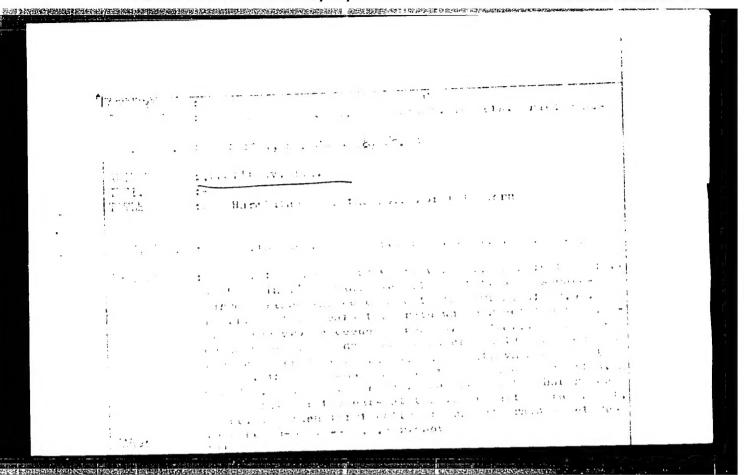
STREL'TSCV, I. I.

Brown-tril Moth

Protecting young oaks against the brown-tail moth Les 9 step! 14, no. 5, 1953

Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED.



STHELITSOV. 1.1... nemerally soutrednik (bnepropetrovsk)

Automatic trap for owlet moths. Zashch.rast.ot vred.i bol. 4
no.0144, N.D '59.

(Insect traps)

(Insect traps)

STREL'TSOV, I.P.

STREET, THE STREET, ST

Results of a competition in the Pacific Ocean Basin administration of the Scientific Technological Society for Water Transportation. Biul. tekh.—ekon. inform. Tekh. upr. Min. mor. flota 7 no.4:133-136 162. (MIRA 16:4)

1. Uchenyy sekretar' Tikhookeanskogo basseynovogo pravleniya Wauchno-tekhnicheskogo obshchestva vodnogo transporta. (Pacific Ocean-Merchant marine)

VODYANIK, G.M.; STREL'TSOV, I.P.

New drive for NPI-type counter-rotating fans. Trudy NPI 137:81-97 '62. (MIRA 16:10)

AUTHORS:

Selivanova, N. M., Zubova, G. A.,

sov/156-58-1-2/46

Strel'tsov. I. S.

TITLE:

On the Problem of Barium-, Strontium-, and Lead Selenate Crystalline Structure (K voprosu o kristallicheskoy strukture

selenatov bariya, strontsiya i svintsa)

PERIODICAL:

Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya

tekhnologiya, 1958, Nr 1, pp. 5 - 8 (USSR)

ABSTRACT:

The crystalline structure of the selenates has hitherto much less been investigated than that of the sulfates. Above all the selenates of the bivalent metals which are soluble to only a small extent are insufficiently known. After a survey of publications (Refs 1-5) the authors say that at present the mentioned three selenates may be considered as isomorphous to the corresponding sulfates, i.e.they have an orthorhombic bipyramidal structure (barite type) (Refs 8-10). Since, however, experimental data on the structure of the barite type in the case of lead selenates are lacking in publications, the authors decided to investigate radiologically the three mentioned salts. The production and several constants of the mentioned three salts are described in an experimental part. Figure 1 gives

Card 1/3

On the Problem of Barium-, Strontium-, and Lead Selenate Crystalline Structure

SOV/156-58-1-2/46

the Debye (Debay)-Scherrer (Sherrer) X-ray diagrams. They show that the appearance of the radiograph of the strontium selenate differs from that of barium selenate, it is, however, similar to that of lead selenate. The interplanar spacings of BaSeO_A, SrSeO_A and PbSeO_A (Table 2) show similar conditions.

The values determined of the refraction indices of all salts in question (Table 1) increase with the rising cation weight. They are in all cases higher than the values of the same indices of the corresponding sulfates (Ref 6). They form a series: tellurides selenides sulfides oxides (Ref 2). The indices of refraction of tellurates, selenates, and sulfates are bound to change in the same order. This would agree with the authors' results. The fact that the lead selenates belong to the crystalline structure type of barite may be considered as proved. The analogy of the Debye (Debay) diagrams of the strontium— and lead selenates is no chance one: it is exclusively due to the approximate ionic radii of Sr²⁺ and of Pb²⁺ (1,27 Å and 1,32 Å)(Refs 13,14). There are 1 figure, 2 tables, and 16 references, 6 of which are Soviet.

Card 2/3

CIA-RDP86-00513R001653520009-0 "APPROVED FOR RELEASE: 08/26/2000

On the Problem of Barium-, Strontium-, and Lead

SOV/156-58-1-2/46

Selenate Crystalline Structure

ASSOCIATION: Kafedra neorganicheskoy khimii Moskovskogo khimiko-tekhnologicheskogo instituta im.D.I.Mendeleyeva (Chair of Inorganic Chemistry of the Moscow Institute of Chemical Technology imeni

D.I. Mendeleyev)

SUBMITTED:

September 21, 1957

Card 3/3

5(2) SOV/78-4-7-3/44 AUTHORS: Selivanova, N. M., Shneyder, V. A., Strel'tsov, I. S.

TITLE: The Thermal Decomposition of Calcium Selenate (Termicheskoye

ra zlozheniye selenata kalitsiya)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 7,

pp 1481-1487 (USSR)

ABSTRACT: The heating- and cooling-curves of calcium selenate (Fig 1)

were plotted by means of the N. S. Kurnakov-pyrometer. The temperature at the beginning of decomposition and at complete decomposition, the melting temperature, and the degree of thermal decomposition between 200-1150° were determined. The salt CaSeO₄.2H₂O served as a starting basis. The heating curve up

to 600° develops in a manner similar to that in the case of gypsum. The cooling curve is not in agreement with the heating curve, because irreversible processes occur in the case of heating. The data of the analysis of the salt annealed at different temperatures are given by table 1. Table 2 mentions the losses in weight at various temperatures. A microscopical in-

losses in weight at various temperatures. A microscopical investigation of the salt heated up to 200° shows a mixture of

SOV/78-4-7-3/44

The Thermal Decomposition of Calcium Selenate

CaSeO₄·2H₂O·crystals and fine needle-shaped crystals of the non-aqueous selenate. Attempts made to produce the semihydrate CaSeO₄· ½ H₂O were unsuccessful. During heating, modification changes sometimes occur. At 698° decomposition and conversion into selenite begins: 2CaSeO₄ → 2CaSeO₃ + O₂ with partial volatilization. The final product is calcium oxide and anhydride of the selenic acid. The results obtained do not explain the reversible endothermal effect at 786° of the heating curve. The results of the Debye-Scherrer X-ray pictures are given by table 3. As shown by table 4, calcium selenate is less temperature-resistant than calcium sulfate. The refraction indices of the crystals were determined by A. I. Mayer. There are 1 figure, 4 tables, and 23 references, 10 of which are

SUBMITTED:

April 11, 1958

Card 2/2

SELIVANOVA, N.M.; SHNEYDER, V.A.; STREL!TSOV, I.S,

A STANDARD AND AND ARREST AGAINST AND ARREST ARREST

Physicochemical study of selenates. Part 9: Thermal decomposition of magnesium selenate. Izv. vys. ucheb. zav; khim. i khim. tekh. 3 no. 5:787-793 '60. (MIRA 13:12)

 Moskovskiy khimiko-tekhnologicheskiy institut imeni
 D.I.Mendeleyeva. Kafedra obshchey i neorganicheskoy khimii. (Magnesium selenate)

85607

5 2640 22

2209, 1273, 1043

S/078/60/005/010/027/030/XX B017/B067

AUTHORS:

Selivanova, N. M., Shneyder, V. A., and Strel'tsov, I. S.

TITLE:

Production of Crystal Hydrates of Magnesium Selenate

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 10,

pp. 2269-2271

TEXT: The crystal hydrates of magnesium selenate were synthesized. The compound MgSeO₄.6H₂O was produced by dissolving a stoichiometric amount of purest magnesium oxide in selenic acid, and subsequent crystallization at room temperature. Its specific gravity is 2.01; MgSeO₄.6H₂O has the fol-

lowing refractive indices; $Ng = 1.495 \pm 0.002$, $Np = 1.464 \pm 0.002$. The interplanar spacings (d) and the relative lines of intensity of the X-ray pictures of the following compounds are summarized in a table: $MgSeO_4 \cdot 6H_2O$, $MgSeO_4 \cdot 4H_2O$, $MgSeO_4 \cdot H_2O$, and $MgSeO_4$. By heating the crystals of $MgSeO_4 \cdot 6H_2O$ in the air bath at temperatures of 40 and $70^{\circ}C$, a crystal hydrate $MgSeO_4 \cdot 4 \cdot 5H_2O$ is formed. By heating the crystal hydrate

Card 1/2

85007

Production of Crystal Hydrates of Magnesium Selenate

S/078/60/005/010/027/030/XX B017/B067

MgSeO₄.6H₂O in the air bath at 40° C, the tetrahydrate MgSeO₄.4H₂O is formed within four days. The monchydrate MgSeO₄.H₂O is formed by boiling MgSeO₄.4H₂O in glacial acetic acid with reflux in the course of three hours. The anhydrous magnesium selenate MgSeO₄ is formed by thermal treatment of MgSeO₄.H₂O at 350°C. The microscopic pictures of the crystal hydrates MgSeO₄.6H₂O and MgSeO₄.4H₂O are reproduced in a figure. There are 1 figure, 1 table, and 9 references: 1 Soviet, 1 US, 3 French, 3 German, and 1 Swedish.

SUBMITTED: July 3, 1959

Card 2/2

5.2610 also 2308

8**L215** \$/078/60/005/010/010/021 B004/B067

AUTHORS:

Selivanova, N. M., Shneyder, V. A., Strel'tsov, I. S.

TITLE:

Thermal Decomposition of Beryllium Selenate $|\mathcal{V}|$

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 10,

pp. 2272-2279

TEXT: By means of the Kurnakov pyrometer the authors took the heating and cooling curves of beryllium-selenate tetrahydrate in the temperature range 50 - 800°C (Fig. 1). They compared them with the curves obtained for anhydrous beryllium selenate (Fig. 2). From these data as well as from the analyses of the residues on ignition of BeSeO₄.4H₂O (Table 1) and BeSeO₄ (Table 2), of the loss on ignition of these substances (Table 3), and the Debye-Scherrer X-ray picture (Table 4), they obtained the following results: At 75°C, BeSeO₄.4H₂O passes over into BeSeO₄.2H₂O. At 146°C, a

X

further water loss occurs; and at 213°C, anhydrous BeSeO $_4$ is formed. These processes are accompanied by a partial reduction of Se $^{6+}$ to Se $^{4+}$ and a

Card 1/2

Thermal Decomposition of Beryllium Selenate

84215 \$/078/60/005/010/010/021 B004/B067

partial volatilization of Se. Decomposition occurs at 460 - 560°C. Be0 is formed without melting of the reaction product. As may be seen from Table 5, dehydration of BeSe04.4H20 starts at a temperature lower than that of BeSo4.4H20. Table 6 lists the decomposition temperatures of the selenates and sulfates of the series Bo, Mg, Ca, Sr, Ba. Fig. 3 shows the following thermal stability of the selenates: BeSe0 $_4 < \text{MgSe0}_4 < \text{CaSe0}_4 < \text{SrSe0}_r$

SaSeO The lower thermal stability of the selenates compared to the sulfates is explained by their lower heat of formation and lattice energy. The authors mention papers by S. D. Shargorodskiy and Ya. A. Fialkov (Ref. 17) and Vikt. I. Spitsyn, and V. I. Shostak (Ref. 22). There are 3 figures, 6 tables, and 30 references: 16 Soviet, 3 US. 1 British, 4 German, 5 French, and 1 Austrian.

SUBMITTED: J

July 3, 1959

Card 2/2

BURGUSTER VA, De ga Aleksandrovna; KARATET YANTS, Mikhail
Khristoforovich, prof.; KARETNIK V, German Sergeyevich,
dots., KISELEVA, Yekaterina Vasil'yevna, dots.; KUDRYASHOV,
Igor' Vadimirovich, dots.; MIKHAYLOV, Vladimir Vasil'yevich,
dots., STAROSTENKO, Yekaterina Pavlovna, dots.; STREL'TSOV,
Igor' Sergeyevich; KHACHATURYAN, Ol'ga Borisovna, dots.;
GORBACHEV, S.V., doktor khim. nauk, prof., zasl. deyatel'
nauki i teknniki, red.; ALAVEREC V, Ya.C., red.; VORONINA,
E.K., tekhn. red.

[laboratory work in physical chemistry] Praktikum po fizicheskoi khimii. [By] G.A.Burmistrova i dr. Moskva, Vysshaia shkola, 1963. 553 p. (MIRA 16:11) (Chemistry, Physical and theoretical—Laboratory manual)

RASSUDOVA, N.S.; TEREKHOVA, A.I.; LILO, W.H.; ALEKSANDROVA, N.A.; STRELITSOV, I.S.; RUBINSHTEYN, B.L.

Synthesis and investigation of the characteristics of nickel titanates and mixed nickel-titanium pigments. Lakokras.mat. i ikh prim. no.2: 25-29 '63. (MIRA 16:4) (Pigments)

RASSUDOVA, N.S.; STREL'TSOV, I.S.; ALEKSANDROVA, N.A.

Studying the transformation taking place during the synthesis of nickel metatitanates. Lakokras. mat. i ikh prim. no.5:27-29 '63. (MIRA 16:11)

\$/078/63/008/003/016/020 B117/B186

AUTHORS:

Leshchinskaya, Z. L., Selivanova, N. M., Strel'tsov, I. S.

TITLE:

Heat of formation of barium selenite

I ER TODICAL:

Zhurnal neorganicheskoy khimii, v. 8, no. 3, 1963, 763-764

TEXT: The heat of formation of barium selenite in the reaction of sodium selenite with barium chloride was measured in a calorimeter at 25°C for the first time. The presence of crystalline barium selenite was proved by x-ray diffraction analysis. The standard heat calculated according to Hess's law was $\Delta H_{298}^0 = -249.31$ kcal/mole. There are 1.

figure and 1 table.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im.

D.I. Mendeleyeva (Moscow Institute of Chemical Technology

imeni D.I. Mendeleyev)

SUBMITTED:

May 7, 1962

Card 1/1

LESHCHINSKAYA, Z.L.; SELIVANOVA, N.M.; MAYYER, A.I.; STREL'TSOV, I.S.; MUZALEV, Ye.Yu.

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Heats of formation of nickel selenites and cobalt selenites. Zhur. VKHO 8 no.5:577-578 '63. (MIRA 17:1)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

SELIVANOVA, N.M.; SAMPLAVSKAYA, K.K.; STREL'TSOV, I.S.; MAZEPOVA, V.I.

Thermal decomposition of aluminum selenate. Zhur. neorg. khim.
8 no.7:1645-1653 J1 '63. (MIRA 16:7)

(Selenates) (Aluminum compounds)

(Thermal analysis)

SELIV NOVA, N. M.; LESHCHIMSKAYA, Z. L.; STRELITSOV, I. S.

Heat of formation of cadmium selenite. Zhur. fiz. khim. 37 no. 3:668-670 Mr '63. (MIRA 17:5)

1. Moskovskiy ordena Lenina khimiko-tekhnologicheskiy institut imeni Mendelyeyeva.

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ACCESSION NR: AP3004065

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s/0076/63/0 37/007/1563/1567

AUTHORS: Selivanova, N. M.; Leshchinskaya, Z. L.; Mayer, A. I.; Strel*tsov, I. S.; Muzalev, Ye. Yu.

TITLE: Thermodynamic properties of nickel selenite dihydrate

SOURCE: Zhurnal fizicheskoy khimii, v. 37, no. 7, 1963, 1563-1567

TOPIC TAGS: nickel selenite dihydrate, sodium selenite, nickel nitrate

ABSTRACT: Authors analyzed nickel selenite dihydrate which is stable under ordinary conditions. In this work, the reaction heat of the interaction of nickel nitrate with sodium selenite was measured in a calorimeter at 25C. After this data was obtained, the standard heat of formation of nickel selenite dihydrate from the elementary components was calculated. A further thermodynamic processing of these findings with the incorporation of V. G. Chukhlantsev's data (Zhurn. Aralit. Khimii, 12, issue 3, 1957, p. 296) with respect to the solubility of nickel selenite made it possible to compute the change in the standard isobaric potential during the formation of nickel selenite dihydrate from the elementary domponents as well as the standard entropy of this salt. Orig. art. has:

I figure and I table.

ASSN: Moscow chemical engineering institute.

Card 1/2/

CHASNIKOV, I.Ya.; ANZON, Z.V.; TAKIBAYEV, Zh.S.; STREL'TSOV, I.S.

Identification of particles by the photographic emulsion technique.
Zhur. eksp. i teor. fiz. 45 no.2:29-37 Ag '63. (MIRA 16:9)

l. Institut yadernoy fiziki AN Kazakhskoy SSR.
(Photography, Particle track)

3.1177 1. U.T.; SAVYKIRA, T.A.; STRELCTSOV, 1.3.

Astronic detaility of sodium selenate. Inv. v.m. vehic. Vav.;

khim. 1 khim. tekh. 7 no.3:365-372 44.

(U.T.A. 17:1)

1. Nookovskiy khimiko-tekh.ologida-skiy inctitut imeni Nemerlayeva, kafedra obshchey i neorganicaeskoy khimii.

STREL'TSOV, Ivan Vasil'yevich; SEMENOV, Leonid Ivanovich; PYLAYEVA, L.N., red.

[Practice in highway construction in Uzbekistan] Opyt stroitel'stva avtomobil'nykh dorog v Uzbekistane.
Tashkent, "Uzbekistan", 1965. 134 p. (MIRA 18:12)

STREL'ITSOV, K.

On the road to reconstruction, Sel'.stroi, 14 no.9:28 S '59.

(MIRA 12:11)

1. Direktor Ryazanskoy shkoly masterov (desyatnikov).

(Ryazan-Building trades-Study and teaching)

"APPROVED FOR RELEASE: 08/26/2000 C

CIA-RDP86-00513R001653520009-0

\$/058/61/000/007/086/586 A001/A101

AUTHOR:

Strel'teov, K.A.

TITLE

The application of Doppler effect to hydroaccustics

PERIODICAL: Referationny zhurnal, Fuzika, no. 7, 1961, 370, abstract ?Zh661 ("Tr. Tsentr. n.-t. in-wa morek. flota", 1960, no. 30, 83 - 90)

TEXT: The author considers uncorstical problems of the precision of the Doppler basic formula for an ideal bear, as applied to hydroacoustics. He analyzes briefly main errors and proposes some methods of their taking into account or compensation. The prospect of applying the method considered to automatic navigation (for automatics of navigation) is outlined.

[Abstracter's none; Complete translation]

Card 1/1

STRELITSOV, K.A.

New developments in the design of echo sounders. Inform.sbor. TSNIIMF no.60 Sudovozh.i sviaz* no.15:3-7 ¹61.

(MIRA 16:2)

(Echo sounding)

AVERKIYEV, Vladimir Pavlovich; KAUFMAN, A.L., retsenzent; LADE, B.F., retsenzent; FAVLOV, G.N., retsenzent; NAZAROV, V.Ne., nauchn. red.; STREL'TSOV, K.A., nauchn. red.; KLENENA, Ye.V., red.izd-va; KRYAKOVA, D.M., tekhn. red.

之。1918年12月11**5月11日,1918年12月**11日,1918年12日

[Fish location and electronavigation equipment on ships]
Sudovye rybopoinkovye i clektronavigatsionnye pribory.
Leningrad, Sudpromgiz, 1963. 31 p. (MIRA 16:12)
(Trawls and trawling—Equipment and supplies)
(Electricity in navigation)

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Sard 2/3 Card 3/3 Card 3/3	Care 3/3		Gard 2/5	ABSTRACT:	PERIODICAL	TITLE:	5(1) AUTEOR:

LOSEV, Boris Ivanovich, doktor tekhn.nauk, prof.; STREL'TSOV, Konstantin Nikolayevich; PECHENKIN, A.L., inzh., red.; BRAGINSKIY, V.A., inzh., red.; FREGER, D.P., izd.red.; BELOGUROVA, I.A., tekhn.red.

[Manufacture and assembly of parts made of plastics; a survey]
Obrabotka i sborka detalei iz plasticheskikh mass; obzor. Pod
red. A.L.Pechenkina i V.A.Braginskogo. Leningrad, 1960. 75 p.
(MIRA 14:6)

(Plastics)

STREL'TSOV, K.N.

Ways and means of expanding the processing of sheet thermoplastics.

Plast.massy no.5:25-31 '60. (MIRA 13:7)

(Plastics industry--Equipment and supplies)

S/081/62/000/017/086/102 B177/B186

AUTHOR:

Strel'tsov, K. W.

TITLE:

a new production process for treating thermoplastic sheets

rectobic L:

Referctively zhurnal. Khimiya, no. 17, 1962, 542-543, abstract 17761 (In collection: Plastmassy v mushinostr. i priborostr. Kiyev, Gostekhizdat USSR, 1961, 520 - 529)

TEXT: To promote efficient manufacturing techniques for the production of finished plastic articles, a technology has been devised for manufacturing galvanic pressure moulds, for high-pressure extrusion (>15 atm.) and for vibuum-moulding of thermoplastic sheets (viniplast, organic glass, a reinforced copolymer of styrene (CH - N(SH-P)) and polyethylene). This makes it possible to obtain articles of complicated shape, large-sized components, and components simulating cut glass, with considerable simplification and cheapening of the process, and with improvement of quality. The author presents the design and a description of the galvanic extrusion moulds, the high-performance pneumatic stamping moulds and a doublesided fitment.

[Abstracter's note: Complete translation.]

Card 1/1

STREL:TSOV, K.

Large details made of sheet thermoplastics. Na stroi.Ros. no.4: 35-36 Ap '61. (MIRA 14:6)

1. Nachal'nik Opytno-konstruktorskikh masterskikh upravleniya khimicheskoy promyshlennosti Lensovnarkhoza.

(Thermoplastics)

BOBRYNIN, Boris Nikolayevich; STREL'TSOV, Konstantin Nikolayevich; ROMANOVSKIY, V.P., kand. tekhn.nauk, red.; VAYNTRAUB, D.A., kand. tekhn. nauk, red.; LEYKINA, T.L., red.izd-va; BARDINA, A.A., tekhn. red.

[Stamping of sheet plastics]Shtampovka listovykh plastmass. Pod obshchei red. V.P.Romanovskogo. Moskva, Mashgiz, 1962. 76 p. (Bibliotechka shtampovshchika, no.8) (MIRA 15:11) (Plastics—Molding)

STREL'TSOV, Konstantin Nikolayevich; CHEGODAYEV, D.D., red.; TOMARCHENKO, S.L., red.; FOMKINA, T.A., tekhn. red.

[Pressure and vacuum forming methods of processing thermoplastics] Pnevmaticheskaia pererabotka termoplastov. Pod red. D.D.Chegodaeva. Leningrad, Goskhimizdat, 1963. 174 p. (MIRA 16:7)

(Plastic--Molding)

STREL'TSOV, K.N.

Mechanized vacuum-forming technology for the manufacture of articles from sheet thermoplastics. Plast.massy no.4:27-30 '63. (MIKA 16:4) (Plastics industry—Equipment and supplies) (Plastics—Molding)

ACC NR. AMOUZU328

Monograph

UR/

Losev, Boris Ivanovich; Putintsev, Georgiy Vasil'yevich; Strel'tsov, Monstantin Nikolayevich

Processing and finishing of plastic parts (Obrabotka i otdelka detaley iz plastmass) [Leningrad] Lenizdat, 1966. 234 p. illus., biblio., tables. 10,000 copies printed.

TOPIC TAGS: plastic, plastic industry, industrial production

PURPOSE AND COVERAGE: The book describes modern methods for the processing and finishing of plastics such as machining, heat treatment, ultrasonic and high-frequency induction welding, or spraying. It discusses such problems as: testing methods, assembly of plastic parts, or quality control of finished products. The book is intended for engineers, technicians, and qualified workers. It can be used by college and high school students. There are 96 Soviet references.

TABLE OF CONTENTS (abridged):

Foreword -- 3

Cord 1/2

UDC: NONE

BANKE WAS BURNESS OF BURNESS OF STREET ACC NR. 11:0026328 Basic information on resins and plastics -- 5 Properties of plastics and methods for determining these properties -- 19 Ch. 3. Ch. 4. Processing of plastics -- 62 Metallization of plastics -- 152 Ch. 5. Ch. 6. Spraying of plastics -- 162 Assembly of plastic parts -- 170 . 7. Quality control of the machining, assembly and welded joints of plastic products and structures -- 216 Ch. 7. Ch. 8. Requirements for the production premises, industrial safety rules, industrial hygiene, and fire-prevention measures -- 227 Literature and references -- 230 SUB CODE: 11/ SUBM DATE: 25Jan66/ ORIG REF: 095/ OTH REF: 001/ Card 2/2

L 51551-65 FWT(1)/EWT(m)/EWG(m)/T/EWP(t)/EWP(b) P1-4 IJP(c) RDW/JD/CG
ACCESSION NR: AP5010760 UR/0181/65/007/004/1271/1272

AUTHOR: Kireyev, P. S.; Orlova, N. N.; Saurin, V. N.; Strel'tsov, L. N.

TITLE: Shift of edge of intrinsic absorption under the influence of an electric field in films of GaAs, CdS, and CdTe

SOURCE: Fizika tverdogo tela, v. 7, no. 4, 1965, 1271-1272

TOPIC TAGS: intrinsic absorption, absorption edge, electric field effect, thin film, gallium arsenide, cadmium sulfide, cadmium telluride

ABSTRACT: Although the shift of the edge of intrinsic absorption was investigated in many single crystals before, detailed investigations and comparisons with theory were made only for a few of the substances. The authors chose to investigate the effect in films of GaAs, CdS, and CdTe because such films can be produced readily with high resistances and can be investigated with standard apparatus using sources of relatively low voltage. The films were prepared by vacuum sputtering and measurements were made at room temperature. The degree of heating of the sample was monitored during the measurements to be able to account for the influence of the temperature on the measurement results. However, since the temperature rise Aid

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ACCESSION NR: AP5010760

2

not exceed 5C, the effect of the temperature could be neglected. The shift of the absorption edge was observed at fields on the order of 5 x 10³ V/cm. The results do not agree with the theory of T. S. Moss (J. Appl. Phys. v. 32, 2136, 1961) and measurements will be repeated on films and single crystals using alternating fields and a wide range of temperatures, to check on the causes of this discrepancy. "The authors are deeply grateful to A. P. Landsman for supplying the GaAc; and CdTe films." Orig. art. has: 2 figures and 1 formula.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Institute of Steel and Alloys)

SUBMITTED: 09Nov64

ENCL: 00

SUB CODE: 88. OP

NR REF SOV: 002

OTHER: 007

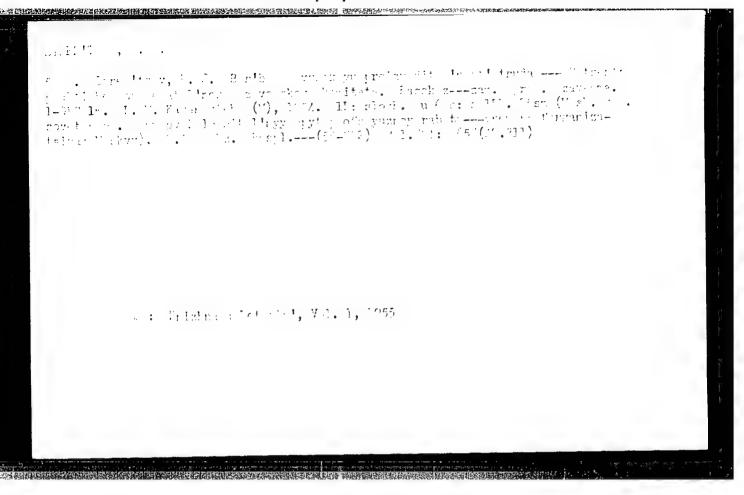
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L 24371-66 EWT(1)/EWT(m)/ETC(f)/EWG(m)/T/EWP(t) IJP(c) RDW/JD/GG ACC NR: AP6009704 SOURCE CODE: UR/0181/66/008/003/0980/0982 AUTHOR: Strel'tsov, L. N.; Kiseleva, N. M.; Kireyev, P. S. 47 ORG: Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov) TITLE: Anomalous shift of the intrinsic-absorption edge under the influence of an electric field in films and amorphous samples of selenium SOURCE: Fizika tverdogo tela, v. 8, no. 3, 1966, 980-982 TOPIC TAGS: selenium, absorption edge, line shift, electret, surface property ABSTRACT: This is a continuation of earlier investigations (FIT v. 7, 2713, 1965) of the intrinsic absorption edge in GaAs, CdS, and CdTe. The present study is devoted to selenium, where instead of the theoretically predicted shift of the absorption edge toward the long-wave side, the shift is toward the shorter wavelength. The amorphous-selenium samples were prepared in the form of plates 200-400 μ thick, or films produced by thermal sputtering in vacuum, ranging in thickness from 1 to 50 μ . The spectra with and without field were obtained with an ISP-51 spectrograph. An incandescent lamp was used as a light source. The spectrograms were analyzed with the aid of a microphotometer (MF-4). The spectra were taken at room and nitrogen temper-

atures, and the field was 5 kv. To ascertain the cause of the anomalous shift of the intrinsic absorption edge, x-ray pictures were taken of the sample before and after the application of the field, to check on the structural changes brought about by the field. The hypothesis that the shift may be due to the fact that selenium exhibits

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an electret state jected on the bas therefore propose although the mann ditional research	e, whose structures of the expered that the anomer in which the	alous shift i	s due to the	rdering Mas O	bserved. It is	3
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STRELTSOV, L. V., BABEOV, S. I., SHAVORONKOV, N. M. and CHERNYKH, G. N.

"Die Kinetik der Isotopenanreicherung in vielstufigen Kolonnen."

这种**的影响的影响的影响的影响的**,但是我们就是这种的影响,就是这种影响,就是这些人能够的感觉。这个可以是这个人也是这么是我们是这种的影响。

Report presented at the 2nd Intl. Conf. on Stable Isotopes. East German Academy of Sciences, Inst. of Applied Physical Material Leipzig, GDR, 30 Oct - 4 Nov 1961

STRELTSOV, L.V.; CHERNYKH, G.H.; SHAVORONKOV, N.M.; BABKOV, S.I.;

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"Uber die eitliche Annaherung an den stationaren Zustand bei der Trennung stablier Isotope in Kolonnen." (Berechnungen auf einer elektronischen Rechenmaschine)

Third Working Conference on Stable Isotopes, 28 October to 2 November 1963, Leipzig.

1 44413-66 ENT(1)/ENT(m)/T DS/NN/RO/GW

ACC NR: AP6024433

SOURCE CODE: UR/0362/66/002/007/0770/0771

AUTHOR: Fuks, N. A.; Strel'tsov, L. V.

38

ORG: Physicochemical Institute im, L. Ya. Karpov (Fiziko-khimicheskiy institut)

TITLE: Methodology of investigating large-particle <u>aerosol</u> settlings in the surface boundary layer of the atmosphere

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 7, 1966, 770-771

TOPIC TAGS: aerosol chemistry, atmosphere, aerosol, aerosol particle

ABSTRACT: A method of fractionation developed at the Institute for Applied Geophysics (Institut prikladnoy geofiziki) for investigation of the settling of large aerosol particles in the surface layer of the atmosphere has been modified and improved by the authors in order to make it suitable, without laboratory facilities, for investigations of toxic chemical particles deposited by spraying and dusting for various purposes. The main changes in the process were the use of slurry instead of powder, making it possible to obtain clearly defined fractions, and the use of alcohol solutions

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ACC NR: AP6024433

of dyes for staining and identification of fractions, the drying process, and the method of counting the particles. Presented in the original article are histograms showing the distribution of fractions according to particle size (ranging from 19.3-233 μ mm) and a diagram indicating the density of individual particles of various magnitude as they settle after being sprayed at an altitude of 2 m from a duster moving perpendicular to the direction of a wind with a velocity of 1.6 m. Orig. art. has: 2 figures. [KP]

SUB CODE: 04/ SUBM DATE: 17Feb66/ ORIG REF: 002/ OTH REF: 000

Card 2/200

这种的现在分词,我们就是我们就是我们就是我们的,我们就是我们的人们的,我们就是我们就是我们就是我们的,但就是我们就没有一个人,我们们也是不是不是,我们们就是这

KIRKHOGLAMI, V.D., arkhitektor; STREL'TSOV, M.B., insh.

Standard apartment houses of few stories. Biul.tekh.inform. 4 no.10:
17-19 0 '58.

(Leningrad--Apartment houses)

STREL'TSOV, M.K., kand. tekhn. nauk

Investigating transient processes and calculating basic parameters of controlled crosscut boring machines for steep seams. Ugol' 39 no.7:31-35 Jl '64. (MIRA 17:10)

1. Donetskiy nauchno-issledovatel'skiy ugol'nyy institut.

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653520009-0

STRING ISCI, MAI.

GUSEV, S.O.; CHEKMAREV, N.P.; STREL'TSOV, M.M.

Publicizing experience in operating trains using mechanical refrigeration and proposals for improving their use. Vest.TSWII MPS 15 no.2:61 S **156. (MLRA 9:12) (Refrigerator cars)

VLADIMIRSKIY, V.V.; KOMAR, Ye.O.; MINTS, A.L.; GOL'DIN, L.;

MONOSZON, N.A.; RUBCHINSKIY, S.M.; TARASOV, Ye.K.; VASIL'YEV, A.A.;

VODOP'YANOV, F.A.; KOSHKAREV, D.G.; KURYSHEV, V.S.; MALYSHEV, I.F.;

STOLOV, A.M.; STREL'ISOY, N.S.; YAKOVLEV, B.M.

,我们我们的**是是一个人,我们就没有一个人,我们就是一个人,我们**是我们的,我们就是这个人的,我们就是一个人,我们就是这个人的人,我们也不是一个人,我们们是一个人,

The 7 bev. proton synchrotron. Prib. i tekh. eksp. 7 no.4:5-9 J1-Ag 162. (MIRA 16:4)

1. Institut teoreticheskoy i eksperimental'noy fiziki Gosudarstvennogo komitete po ispol'zovaniyu atomnoy energii SSSR, Mauchno-issIedovatel'skiy institut elektrofizicheskoy apparatury Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR i Radiotekhnicheskiy institut Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR. (Synchrotron)

STREL'TSOV, N.S.; FEDOTOV, G.M.; ROZHDESTVENSKIY, B.V.; GUSTOV, G.K.; GAMULINA, V.Ye.; NIFONTOV, Yu.L.; INDYUKOV, N.N.; BEZGACHEV, Ye.A.; KURYSHEV, V.S.

Design of the electromagnet of the 7 bev. proton synchrotron. Prib. i tekh. eksp. 7 no.4:15-19 J1-Ag *62.

1. Nauchno-issledovatel skiy institut elektrofizicheskoy apparatury Gosudarstvennogo komiteta po ispol zovaniyu atomnoy energii SSSR i Institut teoreticheskoy i eksperimental noy fiziki Gosudarstvennogo komiteta po ispol zovaniyu atomnoy energii SSSR.

(Blectromagnets) (Synchrotron)

Ore for the second seco	(m)-2/3EC(t)/T/EEC(b)-2/3EC(m)-2 (p)-3/3ED/3EEC(b)/ECM(a)/ECM(gs)/EED(t) s/0089/64/017/004/0287/0294	1
ACCESSION NR: AP4047415		•
	To Disabbanko K K. Komar.	:
AUTHORS: Gashev, M. A.; Gustov, G	N. B. Ponkovich, A. V.:	
Ye. G.; Maly*shev, I.F.; Monoszon	n w. Bummantsey, N. N.: Saksa-	
Ye. G.; Maly*snev, L. F.; Monoszon Ratnikov, B. K.; Rozhdestvenskiy,	Stoloy, A. M.; Strel'tsoy, N. S.:	
ganskiy, G. L.; Spevakova, F. H.;	SCOLOGY BLAST	
Yavno, A. Kh.	19	
TITLE: Main technical characteris	tics of the "Tokamak-3" experi-	
mental thermonuclear installation		
	*,	
SOURCE: Atomnaya energiya, v. 17.	no. 4, 1964, 287-294	;
TOPIC TAGS: thermonuclear pinch,	thermonuclear fusion, plasma re-	
search, plasma pinch/ Tokomak-3		
ABSTRACT: The "Tokamak-3" is into	anded for the investigation of a	
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toroidal quasi-stationary discharged	rge is produced in the vacuum cham-	
netic field. The torotage distinct		
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1 132*1-55 ACCESSION NR: AP4047415

ber by a vortical electric field, and acts as an equivalent secondary turn of a pulse transformer. The produced plasma pinch is stabilized with a longitudinal magnetic field of a toroidal solenoid, inside which the vacuum chamber is located. The magnetic core of the pulse transformer carries the primary vortical-field winding, the demagnetization winding, and the winding for induction heating. The setup is fed from special power systems. The electromagnetic system, the power supply, and the vacuum system are described in some detail. The longitudinal field intensity reaches 40 kg. The vortical field values are 250 and 50 V per turn with pulse durations 10 and 50 milliseconds, and with programming of the waveform such as to maintain a constant current in the plasma pinch. The power supply delivers & peak power of 77,000 kW, maximum 7000 A, no-load voltage 11 kV, and stored energy 180 million Joules. The vortical field is fed from four capacitor banks rated 1000 µF at 20 kV, 11,000 µF at 10 kV, 78,000 µF at 5 kV, and 30,000 µF at 5 kV. The capacitor-bank parameters can be varied over a wide range. The vacuum in the liner does

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not exceed 12 x 10 mm	Hg during the interval	between gas admis-		
sion, with the pressure in mun Hg. Orig. art. has:	n the outside chamber be	ing 12 x 10-0		
ASSOCIATION: None			1	
SUBMITTED: 23Nov63		ENCL: 00	•	
SUB CODE: NP ME	NR REF SOV: 000	OTHER: 000)	٠.	
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STREL'TSOV, M.V.

Monorail track for conveying compressed naphtaline. Sbor.rats.

predly proizv. no.5:46-47-260.

(MIRA 14:8)

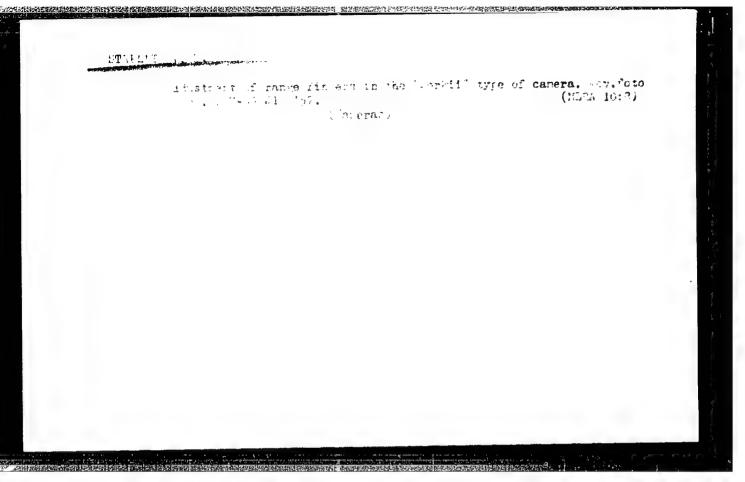
1. Magnitogorskiy metallurgicheskiy kombinat. (Conveying machinery)

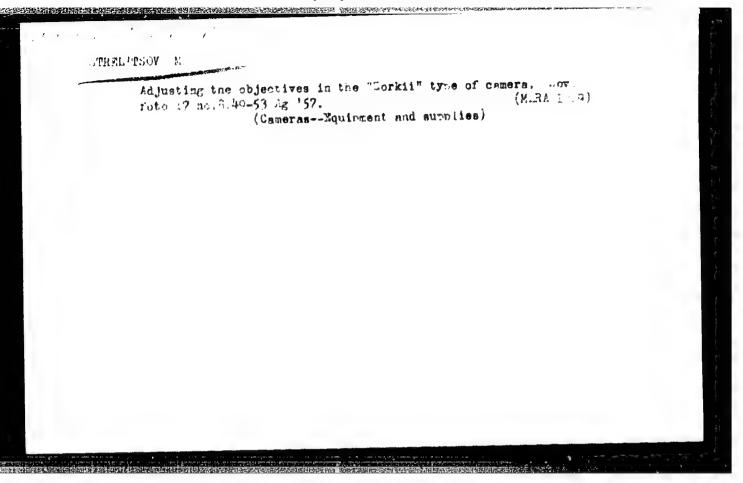
KATSENELENBOGEN, E.D.; IOFIS, Ye.A.; STREL'TSOV, M.V.; SHAMRINSKIY, A.I.; CHODAKOV, A.I.; ZHERDETSKAYA, H.N., Fedgktor; Pankratova, M.A., tekhnichaskiy redaktor

[Laboratory processing of photographic materials] Laboratornaia obrabotka fotomaterialov. Pod red. E.A.Iofisa, Moskva, Gos. izd-vo "lekusatvo," 1956. 200 p. (Biblioteka fotoliubitelia, no.3)

[Microfilm] (MIRA 10:1)

(Photography)





KATSANELENBOGEN, E.D.; IOFIS, Ye.A., kand.tekhn.nauk; STREL'TSOV, M.V.; SHAMRINSKIY, A.I.; GEODAKOV, A.I.; ZHERDETSKAYA, H.N., red.; SIDOROVA, A.A., tekhn.red.

[Laboratory processing of photographic materials] Laboratornaia obrabotka fotomaterialov. Izd.2., ispr. i dop. Pod red. E.A. Iofisa. Moskva, Gos.izd-vo "Iskusstvo," 1959. 206 p. (Biblioteka fotoliubitelia, no.3) (MIRA 13:1)

(Photography--Developing and developers) (Photography--Printing processes)

STREL'TSOV, N.

。 1945年17月1日 1940年 1940

The exchange of progressive experience is a very important problem. Muk. elev. prom. 27 no.9:8 S '61. (MIRA 15:2)

l. Nachalinik planovogo otdela Krasnodarskogo melikombinata. (Krasnodar—Grain milling)

STREL'TSOV, N.

Increase in labor productivity and decrease in the cost of production and distribution in the Krasnodar Milling Combine. Muk.-elev. prom. 28 no.1:3-4 Ja 162. (MIRA 16:7)

 Krasnodarskiy mel'nichnyy kombinat. (Krasnodar Territory—Flour mills)

We are Muk.⊷e	preparing the grain red lev. prom. 28 no.6:28-29	ceiving equipment for 9 Je 162.	(HIRA 15:7)
l. Nac	chal'nik planovogo otdel (Corn (Maize))	la Krasnodarskogo mel ¹ (Grain elevators)	nichnogo kombinata.

STREL'TSOV, N.

Reducing the loss of corn seed at the Krasnodar Milling Combine. Muk.-elev.prom. 29 no.1:24-25 Ja *63. (MIRA 16:4)

1. Nachal'nik planovogo otdela Krasnodarskogo mel'nichnogo kombinata.

(Krasnodar-Grain handling)

STREL'TSOV, N.

Useful seminar for economists, Muk.-elev. prom. 29 no.8:32 Ag '63. (MIRA 17:1)

l. Nachal'nik planovogo otdela Krasnodarskogo mel'nichnogo kombinata.

STREL'TSOV, N.; NARTYMOV, A.

Traffic organization and safety. Avt. transp. 42 no.8:
(MIRA 17:10)

ZHELEZNYAKOVA, M.A.; KLYUYEVA, Ya.P.; STREL'TSOV, N.W., redaktor;

AKATOVA, V.G., redaktor; KONYASHINA, Vekinichwakiy redaktor

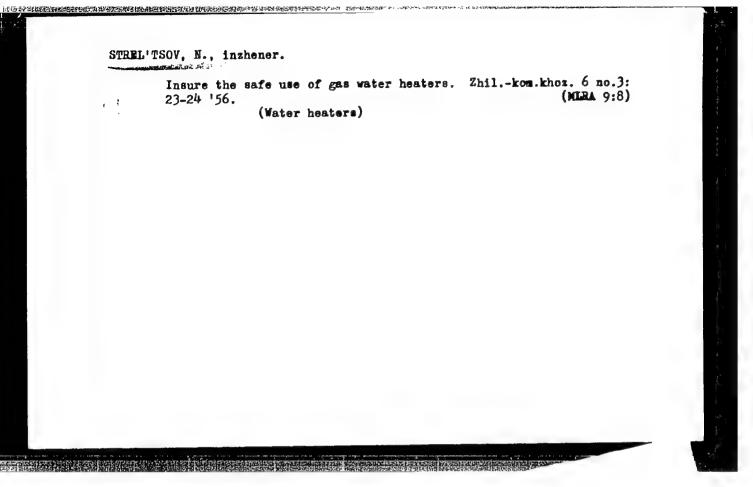
[Construction and operation of gas equipment in public enterprises] Ustroistvo i ekspluatatsiia gazovogo khoziaistva kommunal'nyk predrpiiatii. Moskva, Idz-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1955. 218 p. (MERA 8:10)

(Gas distribution)

STREL'TSOV, N.N., inzhener; SALININ, Ye.A., inzhener.

Efficent air testing of welded joints of insulated gas pipes. Gor. khoz. Mosk. 29 no.12:28-29 D '55. (MLRA 9:3)

(Gas pipes)



"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653520009-0 Nauchno-teknicheskoye obshchestvo energeticheskoy promyshlennosti Moskovskoye Ispolizovaniye gaza v promyshlennykh pechakh i kotelinykh ustanovkakh go Moskovakov oblastio materialv Moskovakovo nanobno-tekhniche Pol'zovaniye gaza v promyshlennykh pechakh i kotel'nykh ustanovkakh g. Moskvy i Moskovskoy oblasti; Moskoy oblasti; Moskovskoy oblasti; Moskoy oblasti; Moskovskoy oblasti; Moskovskoy oblasti; Moskovskoy oblasti; Moskovskoy oblasti; Moskovskoy oblasti; Moskovskoy oblas Moskvy i Moskovskoy oblasti; materialy Moskovskogo nauchno-tekhnicheskogo nauchno-tekhniche Boveshchaniya (Utilization of Gas in Industrial Furnaces and Boiler Unit Moscow and Moscow Oblast; Materials of the Moscow Scientific and Materials of the Moscow Scientific Materials of the M 11(3) in Moscow and Moscow Oblast'; Materials of the Moscow Scientific and Errata slip 227 P. Errata slip rechnical Conference) Moscow, Gostoptekhizdat, 1959. 227 P. Errata slip inserted. 5.000 copies printed. Ed.: D. B. Ginzburg, Doctor of Technical Sciences; Exec. Ed.: N. I. Stepanchenko: Tech. Ed.: A. S. Polosins. PURPOSE: This collection of articles is intended for specialists engaged in designing and operating gas units of industrial enterprises and electric NPOSE: This collection of articles is intended for specialists engaged in designing and operating gas units of industrial enterprises and electric power plants. COVERAGE: The change-over in some industrial enterprises from solid and liquid further possibilities existing along further possibilities existing along TERACE: The change-over in some industrial enterprises from solid and liquing from solid and solid and from solid and liquing from solid and liquing from solid and liquing from solid and solid and from solid and from solid and liquing from solid and from solid and from solid and from solid and solid and from solid and from solid and solid fuel to natural gas is discussed and further possibilities existing along of energy this line are examined. Advantages of using devices for automatic control are outlined. Different gas burner systems. this line are examined. Advantages of using natural gas as a source of ener outlined. Different gas burner systems, devices for sutomatic control are outlined. Different gas burner systems of furnaces operating on natural features of furnaces operating on natural features of furnaces operating on natural features of furnaces operating on natural gas as a source of energy of the sutomatic control of the features of furnaces of the combustion process. are outlined. Different gas burner systems, devices for automatic control control to the combustion process, structural features of furnaces operating on natural features of furnaces operating operation for natural features of furnaces operating on natural features of furnaces operating operation for natural features operation for natural features of furnaces operation for natural features operation for natural features of furnaces operation for natural features operation features operation features operation features opera Card 14

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Utilization of Gas in Industrial Furnaces (Cont.) gas, gas-supply systems and the introduction of safety measures in the measures and the introduction of safety measures in the measures in	
mentioned. One article	3
TABLE OF CONFENTS:	1 5
Preface Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Kolotyrkin, I. M. Present State Industrial Kolotyrkin, I. M. Present State Industrial K	19
Bokserman, Yu. I. Development of the Substitute With Gas Bokserman, Yu. I. Development of Moscow With Gas Bokserman, Yu. I. Rokhvarger. Bokserman, Yu. I. Reznov, and A. Z. Rokhvarger.	28
1965 Period and Strell the Strell the No.	51
Strel'tsov, N. N., A. I. Belousov, N. M. Enterprises Strel'tsov, N. N., A. I. Belousov, N. M. M. Enterprises Network for Supplying Gas to Industrial Enterprises Stoyunin, G. P. Gas Burners for Boilers and Industrial Furnaces Which Can Stoyunin, G. P. Gas Burners for Boilers and Industrial Furnaces Which Can Use Moscow Town Gas Vigdorchik, D. Ya. Automatic Regulation of Gas Combustion	69
. Vigdorchik, D. Ya. Automati	
Card 2/4 Machinery-	
188	

PDP86-00513R001653520009-0

Utilization of Gas in Industrial Furnaces (Cont.)

SOV/2254

Furman, I. Ya. Problems of the Economic Practicability of Utilizing Gas in Industry

204

Dolotov, G. P., and Ye. A. Kondakov. Safe Utilization of Natural Gas in the Machinery-manufacturing Plants

216

AVAILABLE: Library of Congress

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10-5-59

Using methods applied in Moscow in protecting underground gas

pipes by bituminous coating. Gor, khoz. Mosk. 33 no.10:25-27 0 '59. (MIRA 13:2)

1. "Mospromgaz."
(Moscow--Gas pipes--Corrosion and anticrossives)
(Protective coatings)

ZHELEZNYAKOVA, M.A.; KLYUYEVA, Ye.P.; STREL'TSOV, N.N., red.; PANCHENKO, M.F., red.izd-va; NAZAROVA, A.S., tekhn.red.

[Operation of gas systems of communal enterprises] Kksplu-atatsiia gazovogo khoziaistva kommunal nykh predpriiatii. Izd.2. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1960. 219 p.

(MIRA 13:12)

(Gos distribution)

(Gas appliances)

VIADIMIRSKIY, V.V.; KOMAR, Ye.O.; MINTS, A.L.; GOL'DIN, L.L.; KOSHKARIV, D.G.; MONOSZOF, M.A.; MINITIN, S.Ya.; HUBCHINSKIY, S.M.; SKACK-KOV, S.V.; STREL'TSOV, M.S.; TARASOV, Ye.K.

Basic characteristics of the projected 50-60 Bev proton accelerator with alternating-gradient focusing. Atom.energ. no.4:31-33

'56. (Particle accelerators) (Protons)

STRELTSOV, N. S., KOMAR, E. G., MOMOSZON, N. A., FEDOTOV, G. M.

"Some Structural Features of the 10 GeV Synchrotron Electromagnet," paper presented at CERN Symposium, 1956, appearing in Nuclear Instruments, No. 1, pp. 21-30, 1957

ARKHANGEL'SKIY, F.K.; GASHEV, M.A.; KOMAR, Ye.G.; MALYSHEV, I.F.;
MONOSZON, N.A.; STOLOV, A.M.; STREL'TSOV, N.S.

Electric engineering and design problems in constructing large cyclic accelerators. Elektrichestvo no.11:25-14 N '57.

(MIRA 10:10)

(Cyclotron)

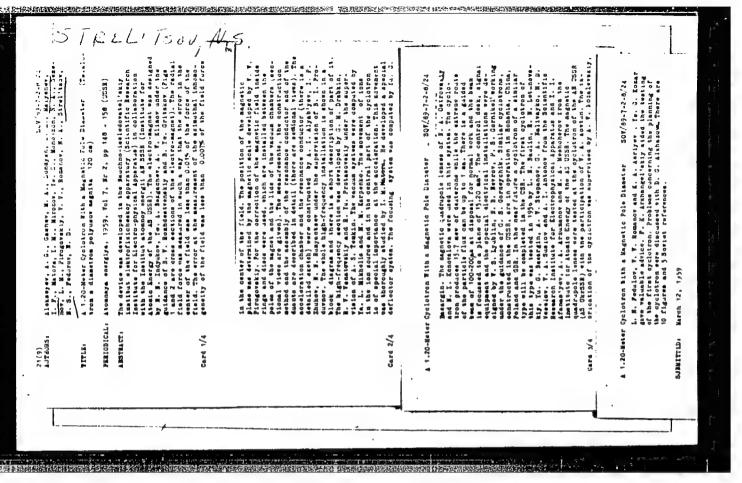
STREL TSOV N.S.

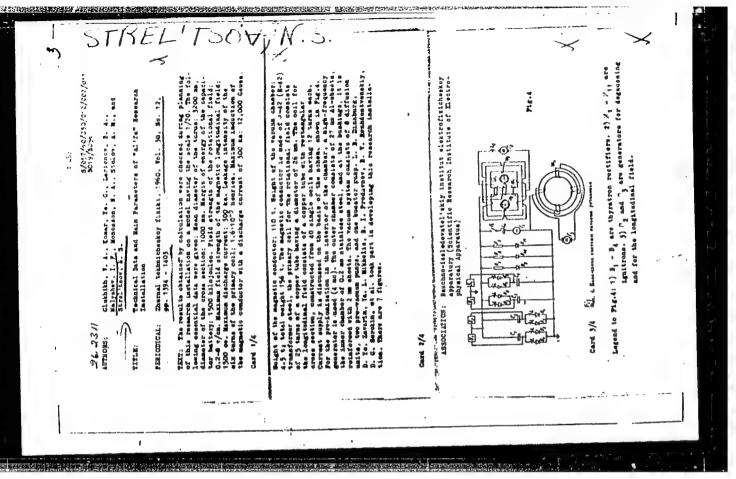
VIADIMIRSKIJ, V.V.; KOMAR, Je.G.; MINC, A.L.; GOL'DIN, L.L.; KOSKAREV, D.C.; MONDSZON, N.A.; HIKITIN, S.Ja.; RUBCINSKIJ, S.M.; SKACKOV, S.V.; STREL'COV, N.S.; TRASOV, Je.K.; MEDONOS, S., inz. [translator]

Main characteristics of the planned proton accelerator for 50-60 BeV energy with sharp focusing. Jaderna energie 3 no.2:56-57 F 157.

"APPROVED FOR RELEASE: 08/26/2000

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AUTHORS: Mon

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Monoszon, N.A., Strel'tsov, N.S., Ostrovskiy, N.A.

TITLE:

The basic electromagnetic parameters of the 7 Gev

proton synchrotron

PERIODICAL: Pribory i tekhnika eksperimenta, no.4, 1962, 10-15

TEXT: The basic parameters of the electromagnet system are given in detail, e.g. number of C-magnets 98; number of quadrupole lenses 14; azimuthal length of each block 1910 mm; maximum strength of magnetic field 8475 Oe; radius of curvature of equilibrium orbit in C-blocks 31 m; aperture of chamber 110 x 80 mm²; rise time of the magnetic field 1.55 sec; number of working cycles per minute 10 to 12. The tolerances in the geometrical dimensions necessary to produce a field of the required accuracy are considered, together with the Special coils are provided characteristics of the steel used. to compensate for perturbations produced by residual magnetism at the beginning and end of the working cycle, and for the effect of eddy currents in the steel. A decrease in magnetic permeability of the magnetic system can also be allowed for. Card 1/2

The basic electromagnetic ...

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sectional diagrams are given of the C-blocks showing the interpolar The upper and lower poles have a hyperbolic contour. Coordinates of the boundary of the hyperbolic and neutral poles were calculated and verified by using a model electromagnet. The configuration of and the fields produced by the quadrupole lenses is also discussed. A description of the layout of the main magnetic field exciting coils is given followed by additional data on the magnet system, e.g. maximum excitation current 2500 A; excitation current at 7 Gev 2200 A; time constant of excitation coils 1.7 sec; weight copper 120 tons; weight steel 2500 tons; voltage on coils at the beginning of the cycle 5000 V; peak power 25000 KW. The method of regulating the field is also described. There are 10 figures and 2 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut elektrofizicheskoy

apparaturyy GKAE (Scientific Research Institute for

Electrophysical Apparatus GKAE)

SUBMITTED: April 6, 1962

Card 2/2

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s/120/62/000/004/002/047 E032/E514

Strel'tsov, N.S., Fedotov, G.M., Rozhdestvenskiy, B.V., Gustov, G.K., Gamulina, V.Ye., Nifontov, Yu.L., 14 6 Indyukov, N.N., Bezgachev, Ye.A. and Kuryshev, V.S. AUTHORS:

The construction of the electromagnet for the 7 GeV

proton synchrotron

PERIODICAL: Pribory i tekhnika eksperimenta, no.4, 1962, 15-19 TITLE:

A description is given (including sectional drawings) of the electromagnet. The electromagnet incorporates four types of magnetic sections, namely: 1) bending sections for radial focusing (total number 42), 2) bending sections for radial defocusing (total number 53), 3) bending sections for radial defocusing, located at points of beam extraction (total number 3), and 4) quadrupole lenses with zero field on the orbit (total The magnetic circuits of all the sections are assembled from insulated steel sheets (the chemical composition of The hyperbolic pole faces were made on a special milling machine and have a curvature of The system used to retain the 2780 cm in the horizontal plane.

Card 1/3

The construction of the ...

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steel sheets in position was such that the deformation of the hyperbolic face was $\pm (0.1-0.15)$ mm after two days and ± 0.03 mm after two months. The design of the neutral pole faces of the bending magnets was such that their deformation and the electrodynamic stresses did not exceed 0.05 mm. The main winding consists of 48 turns connected in series and arranged in ten The winding is made of rectangular copper piping which was manufactured by the Leningrad factory "Krasnyy Vyborzhets". In addition to the main winding, there are three compensating coils which are used to correct the magnetic field. Water cooling is used and the insulation is sufficient to withstand 2 kV. The extracting magnets, which are used to extract the beam into the experimental area, consist of a main coil (8 turns; copper piping) and two compensating coils (8 turns each; copper piping). Finally, the quadrupole lenses carry an 18 turn main winding and an 18 turn auxiliary winding, both in the form of copper piping. In order to facilitate the positioning of all the electromagnets, each of them carried special markers which were used to relate their position to the appropriate points

The construction of the ...

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on the basic geodesic grid. Special mechanisms were used to adjust the magnets. They can be adjusted by ± 2 cm in the vertical plane to an accuracy of 0.001 cm and by ±8.5 cm in the radial direction to an accuracy of 0.002 cm. The former adjustment is made with the aid of special wedges and the latter by a screwdriven mechanism. The azimuthal adjustment is made by simple wedge devices and can be achieved to an accuracy of +0.05 cm.

There are 6 figures.

ASSOCIATIONS:

Card 2/3

Nauchno-issledovatel skiy institut elektro-

fizicheskoy apparatury GKAE

(Scientific Research Institute of Electrophysical

Apparatus GKAE) and

Institut teoreticheskoy i eksperimental'noy fiziki GKAE (Institute of Theoretical and Experimental

Physics GKAE)

SUBMITTED:

April 6, 1962

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CIA-RDP86-00513R001653520009-0

STREL TOOK, N.S.

3/059/62/012/006/003/019 B102/B104

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AUTHORS:

Vindimirskiy, V. V., Komar, Ye. G., Mints, A. L., Gol'din, L. L., Monoszon, N. A., Rubchinskiy, S. M., Tarasov, Ye. K., Vasil'yev, A. A., Vodep'yanov, F. A., Yoshkarev, D. G., Kuryshev, V. S., Malyshev, I. F., Stolov, A. M., Strel'tsov, H. S., Yakovlev, B. M.

TITLE:

The design of the 7-Bev proton synchrotron

PERIODICAL:

Atomnaya energiya, v. 12, no. 6, 1962, 472-474

TEXT: The history of the first Soviet cyclic accelerator with rigid focusing is oriefly described, and the most important data on its planning and operation are presented. Planning was started in 1953. The parameters of this proton accelerator, the energy of which exceeds the antinucleon production threshold, were so chosen that the dependence of the orbital circumference on the particle momenta was completely compensated. This was achieved by employing 14 quadrupole magneta with orbits of negative curvature. Technical data: output current, 1010 protons/pulse; maximum field strength, 8475 oe; length of equilibrium orbit, 251.2 m; radius of Card 1/2

5/089/62/012/006/003/019 8102/8104

The design of the 7-Bev ...

convictors of the trajectories in the bending magneta (5), 51 m, and in the occupantion agneta (X), so; number of magnetic sectors, 980 + 14X; gap limith between the C-magnets, 304.0 mm; gap length around the X-magnets, 417.5 km; index of the decrease in field strength, 480; internal height and width of the chamber, 50 and 110 mm, respectively; number of betatron oscillations; ar revolution, 12.75, and per periodic element, 0.91; number of magnets per periodic element, 8; total critical energy, 19.2 Bev; extrum deviation of the periodic orbit with 100% deviation of the comentum from the equilibrium momentum, 1.47 m; rate of energy increase per revolution, 4.3 kev; duration of one cycle, 1.55 mec; 10-12 cycles/min; particle revolution frequency at the beginning of the cycle, 0.11 Mc/mc, and at the end, 1.19 Mc/mc; frequency of mynchrocyclotron oscillations, 5000 and 150 cpm; meight of the electromagnet steel, 2500 tons; maximum power of the supply mystem, 25 Mm; van de Gramff injector (particle energy, 3.6 Mev; field strength 90 oe); admissible deviations from field strength and field gradients, ~10-2; deviations at the chamber edge due to nonlinearities, ~10-2; admissible frequency deviation of the accelerating field at the beginning of the cycle, 10-3, and at the end, 5-10-5. There are 1 figure and 1 table.

SUBMITTED: March 12, 1962

S/076/63/037/003/013/020 B101/B215

AUTHORS:

Selivanova, N. M., Leshchinskaya, Z. L., Strel'tsov, N. S.

TITLE:

Formation heat of cadmium selenite

PERIODICAL: Zhurnal fizicheskoy khimii, v. 37, no. 3, 1963, 668-670

TEXT: The standard heat of formation of CdSeO $_3$ was determined calorimetrically by causing CdCl $_2$ to react with Na $_2$ SeO $_3$. Radiographically amorphous CdSeO $_3$ was obtained and $\Delta H_{298}^0 = -137.04$ kcal/mole was found on the basis of data obtained by F. Rossini et al. (Selected values of chemical thermodynamic properties, Washington, 1952). The integral heat of solution of crystalline Na $_2$ SeO $_3$ is -7.05 kcal/mole for a concentration of 1:400. There are 1 figure and 2 tables.

ASSOCIATION:

Moskovskiy ordena Lenina khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva (Moscow "Order of Lenin" Institute of Chemical Technology imeni D. I. Mendeleyev)

Card 1/2

	L 43C88-65 EWT(m)/ EPA(w)-2/EWA(m)-2 Pab-10/Pt-7 IJP(c) JI/GS ACCESSION NR: ATSC07918 S/0000/64/000/000/0197/0201 AUTHOR: Vicidimirobiy, V. V.; Gol'din, L. L.; Konkkerey, D. G.; Tarasov, Ye. K.; All Yohoylev, B. M.; Gustov, G. K.; Komar, Ye. G.; Kulikov, V. V.; Kalyshev, I. F.; Nonession, M. A.; Popkovich, A. V.; Stolov, A. M.; Strel'tsov, N. S.; Titoy, V. A.; Vodop'yanov, E. A.; Kuz'min, A. A.; Kuz'min, Y. F.; Hints, A. L.; Rubchinskiy, S. M.; Uvarov, V. A.; Zhadanov, V. M.; Filsratov, S. G.; Shiryayev, F. Z. TITLE: 60-70 Gev Proton Synchrotron SOURCE: International Conference on High Energy Accelerators, Dubna, 1963. Trudy. Noscow, Atomizdat, 1964, 197-201 TOPIC TAGS: high energy accelerator, synchrotron ABSTRACT: A 60-70 Gev proton synchrotron with strong focusing is being constructed not far from Serpukhov, as has been reported earlier (e.g. "Research Institute for Electro-Physical Equipment, Leningrad," in Proceedings of the International Conference on High Energy Accelerators and Instrumentation (CENN, 1959), p. 373). The present report describes parameter changes and improvements in precision structural characteristics of the accelerator, and the present state of construction in mid- 1963. The parameters of the magnet are presented in a table. A small change in the original plans permitted an increase in the length of a part of the free Cord 1/4
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sections, some of which are utilized for input and exit of beams. The super-period design is described. The lengthened sections were obtained as a consequence of shortening the focusing and defocusing blocks by 112 cm. The focusing properties of the magnetic channel were diminished consequently, but very little; and the limiting energy was lowered by 2-3 Gev. The construction of the magnet is described Each of the magnetic blocks is divided lengthwise into 5 sub-blocks which are enveloped by the common winding. These sub-blocks consist of laminar two-millimeter silicon steel. These steel sheets were stamped out without subsequent mechanical working, and were subjected to sorting and intermixing in order to smooth out their magnetic characteristics. The sub-blocks are constricted by lateral welded plates without adhesion. Provision was made for windings on the poles in order to correct for pole nonlinearity and for variations in the drop reading. These windings make it possible to introduce artificial quadratic (square) nonlinearity that changes the dependence of the frequency of transverse oscillations during a pulse. In order to correct for straying of the residual field, provision has been made for windings on the yoke in series with the main winding. The sub-blocks must undergo calibration on a magnet stand in order to make correcting systems more precise and to determine the most convenient disposition of the sub-blocks along the ring. The winding of the electromagnet is made of aluminum bushars with hollow cores for cooling water. The length of the bushar is so selected that there would be no

Card 2/4

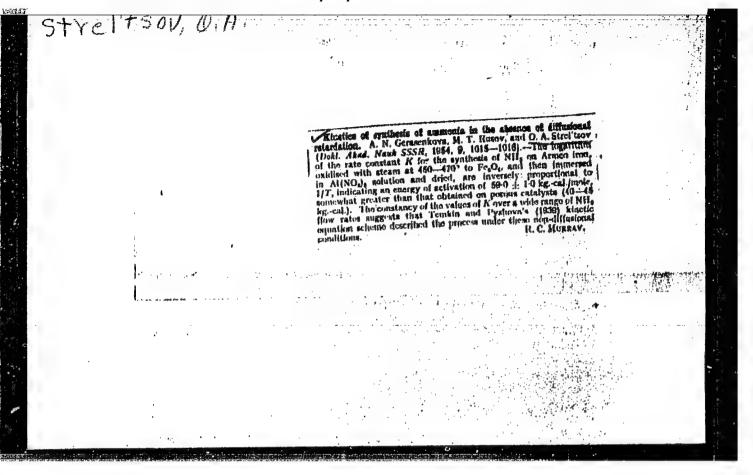
L 43088-65 ACCESSION NR: AT5007918 welded joints inside the coils. The winding consists of 4 sections, two of which are disposed on the upper pole and two on the lower. The most important character istics of the electromagnet and power supply system are described in a table. Also described are the vacuum chamber and accelerating field (obtained by 53 paired resonators with ferrite rings, which operate at the 30-th harmonic of revolution and give accelerating potential of 350 kilovolts). The ring tunnel and the general and give accelerating potential of 350 kilototics. The fall cannot are shown in figures and described. The building arrangement of the accelerator are shown in figures and described. for the injector and portions of the ring tunnel from the injector to the experimental room have been completed in the main and are ready for installation of equipment. This room, in the form of a single-aisle building without internal supports, permits one to work on beams brought into the inner and outer sides. A 90-meter arch covers this room, whose overall length is 150 meters. Provisions have been made for a second experimental room at the southwest part of the ring. Orig. has 4 figures, 2 tables. ASSOCIATION: Institute teoreticheskoy i eksperimental noy fiziki GKAE SSSR (Institute of Theoretical and Experimental Physics, GKAE SSSR). (2) Nauchnoissledovatel'skiy institut elektrofizicheskoy apparatury imeni D. V. Yefremove GKAE SSSR (Scientific Research Institute of Electrophysical Apparatus, GKAE SSSR) Card_3/4

ACCESSION NR: AT5007918 (3) Radiotekhnicheskiy institute AN SSSR (Radio Engineering Institute, Academy of Sciences SSSR). (4) Gosudaretvennyy proyektnyy institut GKAE SSSR (State Planning Sciences SSSR).									
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在大学的一个人,这个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人

GASHEY, M.A.; GUUTOV. C.K.; PARCHENKO, K.R.; ROMAR, Ye.G.; MALYSHEV,
I.F.; MONOSKOT, N.A.; LOPKOVICH, A.V.; RATHIKOV, B.K.; ROZHDESTVENSKIY,
B.V.; RUMYANTOTY, N.H.; SAKSAGANSKIY, G.I.; CPEVAKOVA, F.M.: STOLOV,
A.M.; STRELTISCY, N.S.; YAVID, A.Kh.

Principal mechanical characteristics of the experimental thermonuclear plant "Tokamak-3." Atom. energ. 17 no.4:287-294 0 64. (MIRA 17:10)



"APPROVED FOR RELEASE: 08/26/2000

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STREET TSOV. O. A.

USSR/Chemistry - Catalysts

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1/1 Pub. 116 - 18/20

Authors

Strel'tsov, O. A. and Rusov, M. T.

Title

Kinetics of reduction of individual grains of an ammonium catalyst

Periodical

Ukr. khim. zhur. 20, Ed. 4, 438 - 446, 1954

Abstract

The kinetics of hydrogen reduction, of individual grains (of various size) of a technical ammonium catalyst, was investigated in isothermal conditions in a quasi-dynamic system at pressures ranging from 0.8 kg/ cm2, flow rate of 42 liters/hr and gradual temperature increase from ~ 300 to ~500 °C. It was established that the process of catalyst grain reduction is retarded by the internal diffusion exchange of the reaction components. The effect of grain size reduction on the act. Ity of the catalyst, is explained. Seven references: 6-USSR and 1-U. minian (1937-

1950). Tables; graphs; drawing.

Institution : Acad. of Sc. Ukr-SSR, The L. V. Pisarzhevskiy Institute of Phys. Chemistry

Submitted

January 5, 1954

GERASENKOVA, A.N.; RUSOV, M.T.; STREL'TSOV, O.A.

Kinetics of the synthesis of ammonia in conditions free of diffusive inhibition. Dokl.AN SSSR 96 no.5:1015-1016 Je '54. (MIRA 7:7)

1. Institut fizicheskoy khimii Akademii nauk USSR. Predstavleno akademikom A.N.Frumkinym.

(Ammonia)

